



Operations Report

JJ Schmidt

4-DEC-2003

CDF Weekly Meeting



STORE SUMMARY

Date	Store	Duration	Inst Lum initial	Int. Lum delivered	Live Lum	Eff.	Comment
		hours	e30 cm-2 s-1	nb-1	nb-1		
Sa 11/22	3033	4.4	0.6	7.6	5.4	72%	36x12
Su 11/23	3043	9.2	8.8	231	59	26%	Sili in..
Tu 11/25	3048	13.0	9.2	254	159	63%	
We 11/26	3050	39.1	15.4	1023	780	76%	
Fr 11/28	3052	22.1	21.6	989	765	77%	
Sa 11/29	3053	19.9	18.8	357	137	38%	Lost B0 power
Mo 12/1	3057	6.5	22.5	413	298	72%	BAD abort
We 12/4	3080	2.0	21.6	141	8.2	6%	No Sili.



CDF Issues

- Shakedown cruise going well – need stable stores to finish getting CDF back in shape.
- Silicon off (see Rainer's talk) for its own protection.
- COT SL7 cell 86 has problems and one quadrant is currently disabled. Have requested a 2 shift access before Dec. 15 to disable just cell 86. East plug must be pulled.
- Numerous other "small" problems to be worked on during 2 shift access.
- Had an unscheduled power outage late on Saturday, Nov 29 when a 1200 amp breaker failed and took down the first floor pump room. Lack of cooling water took down most systems and most building power was shut down to replace breaker. Good news is that "giant power cycle" actually fixed some problems.



Accelerator Issues

- Beam position returned to pre-shutdown position on first post-shutdown store but has moved UP (the “wrong direction”) about 550 microns over past 8 stores. Collisions are now high by ~5.85 mm.
- High proton losses at beginning of one store kept out Silicon.
- Tevatron quenched during abort at end of several stores due to problems with kicker timing - became a big problem when store 3057 aborted during store due to failed interlock (details in Rainer’s talk).
- “Beams Division” has been renamed “Accelerator Division” and new organization seems to be enthusiastic about coming months.
- Linac, Booster, Pbar, MI approaching pre-shutdown performance. [Recycler had pbars yesterday with measured lifetime > 160 hours. (emittance growth with proton studies < 2pi/hr)]



Conclusions

- From Andy Hocker – August 21, 2003...
 - CDF running well --- losses/quenches making our efficiency look bad.
 - It has been a pleasure managing your ops for the past six months.
 - Good luck to JJ
- From JJ Schmidt – December 4, 2003...
 - CDF running well all things considered.
 - It will be a pleasure managing your ops for the next six months (just be patient for a while..)
 - Good luck to Mary (see next week)